

Chapter 9

Use with Section 1

ENRICHMENT

● Two Kingdoms of Bacteria

How Temperature Affects Bacterial Growth

Materials    

2 same-size clean glass jars with lids
 refrigerator
 fresh milk
 pen
 masking tape



Procedure

1. Pour milk into each jar, filling each about half full. Screw the lid onto each jar.
2. On each jar place a piece of masking tape. With a pen, label one "A" and the other "B."
3. Place jar A in the refrigerator. Place jar B in a warm place. Observe the contents of the two jars over a seven-day period.

Data and Observations

	Appearance	
	Day 1	Day 7
Milk in jar A		
Milk in jar B		

Conclude and Apply

1. What could have caused the change in jar B? _____
2. Since the jars were sealed, what can you say about the presence of bacteria in the milk when you poured it into the jars? _____
3. How did the temperature affect the growth of bacteria in the two jars? _____

4. From this experiment, what would you infer was the primary purpose of a refrigerator?
